

To: Erickson, Russell[Erickson.Russell@epa.gov]
From: Peters, Emily (MPCA)
Sent: Mon 4/21/2014 9:04:39 PM
Subject: confidence intervals around EC20 and EC50
[hydroponic_individualtests_weightchange_20140310.docx](#)
[hydroponic_individualtests_weightchange_H2S_20140414.docx](#)

Russ,

I hope you enjoyed the break from answering my statistics questions! I have a few more for you. I'm attaching the most recent version of the dose response analyses from the hydroponic experiment for your reference.

1. Is there any reason not to use weight change (final weight – initial weight) as the response variable? I'm currently using weight change rate ((final weight – initial weight)/10 days). Stakeholders found this axis confusing so we're contemplating either changing the response variable or clarifying the current response variable (it was mislabeled as "weight change"). Do you have any suggestions?
2. Stakeholders have also asked for confidence intervals around the EC20 and EC50 values. I remember you said we could do this, but how much work is involved? If it's manageable, do you have the time to help me do this in the next couple weeks?

Thank you. I hope all is well.

-Emily

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